

# Olga Babourina

## List of Publications by Year in descending order

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28  
papers

1,655  
citations

394421

19  
h-index

580821

25  
g-index

28  
all docs

28  
docs citations

28  
times ranked

2114  
citing authors

#	ARTICLE	IF	CITATIONS
1	Salicylic acid improves salinity tolerance in Arabidopsis by restoring membrane potential and preventing salt-induced K <sup>+</sup> loss via a GORK channel. <i>Journal of Experimental Botany</i> , 2013, 64, 2255-2268.	4.8	226
2	Role of magnesium in alleviation of aluminium toxicity in plants. <i>Journal of Experimental Botany</i> , 2011, 62, 2251-2264.	4.8	195
3	Salicylic acid in plant salinity stress signalling and tolerance. <i>Plant Growth Regulation</i> , 2015, 76, 25-40.	3.4	186
4	Blue light-induced kinetics of H <sup>+</sup> and Ca <sup>2+</sup> fluxes in etiolated wild-type and phototropin-mutant Arabidopsis seedlings. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 2433-2438.	7.1	114
5	The NPR1-dependent salicylic acid signalling pathway is pivotal for enhanced salt and oxidative stress tolerance in Arabidopsis. <i>Journal of Experimental Botany</i> , 2015, 66, 1865-1875.	4.8	105
6	The cyclic nucleotide-gated channel, AtCNGC10, influences salt tolerance in <i>Arabidopsis</i> . <i>Physiologia Plantarum</i> , 2008, 134, 499-507.	5.2	98
7	Ion-specific mechanisms of osmoregulation in bean mesophyll cells. <i>Journal of Experimental Botany</i> , 2000, 51, 1243-1253.	4.8	94
8	Ammonium and Nitrate Uptake by the Floating Plant <i>Landoltia punctata</i> . <i>Annals of Botany</i> , 2007, 99, 365-370.	2.9	81
9	The cyclic nucleotide-gated channel AtCNGC10 transports Ca <sup>2+</sup> and Mg <sup>2+</sup> in <i>Arabidopsis</i> . <i>Physiologia Plantarum</i> , 2010, 139, 303-12.	5.2	75
10	Low-pH and Aluminum Resistance in Arabidopsis Correlates with High Cytosolic Magnesium Content and Increased Magnesium Uptake by Plant Roots. <i>Plant and Cell Physiology</i> , 2013, 54, 1093-1104.	3.1	69
11	Na <sup>+</sup> /H <sup>+</sup> antiporter activity of the <i>SOS1</i> gene: lifetime imaging analysis and electrophysiological studies on Arabidopsis seedlings. <i>Physiologia Plantarum</i> , 2009, 137, 155-165.	5.2	52
12	Aluminium-induced ion transport in Arabidopsis: the relationship between Al tolerance and root ion flux. <i>Journal of Experimental Botany</i> , 2010, 61, 3163-3175.	4.8	51
13	Plasma membrane Ca <sup>2+</sup> transporters mediate virus-induced acquired resistance to oxidative stress. <i>Plant, Cell and Environment</i> , 2011, 34, 406-417.	5.7	41
14	Aluminum-dependent dynamics of ion transport in Arabidopsis: specificity of low pH and aluminum responses. <i>Physiologia Plantarum</i> , 2010, 139, no-no.	5.2	35
15	Uptake of aluminium into Arabidopsis root cells measured by fluorescent lifetime imaging. <i>Annals of Botany</i> , 2009, 104, 189-195.	2.9	33
16	Improved measurements of Na <sup>+</sup> fluxes in plants using calixarene-based microelectrodes. <i>Journal of Plant Physiology</i> , 2011, 168, 1045-1051.	3.5	33
17	Spatial distribution of ammonium and nitrate fluxes along roots of wetland plants. <i>Plant Science</i> , 2007, 173, 240-246.	3.6	30
18	Nitrate supply affects ammonium transport in canola roots. <i>Journal of Experimental Botany</i> , 2006, 58, 651-658.	4.8	29

#	ARTICLE	IF	CITATIONS
19	Effect of Sudden Salt Stress on Ion Fluxes in Intact Wheat Suspension Cells. <i>Annals of Botany</i> , 2000, 85, 759-767.	2.9	24
20	Non-invasive microelectrode potassium flux measurements as a potential tool for early recognition of virus-host compatibility in plants. <i>Planta</i> , 2010, 232, 807-815.	3.2	20
21	Reactive Oxygen Species Production in Wheat Roots Is Not Linked with Changes in H <sup>+</sup> Fluxes During Acidic and Aluminium Stresses. <i>Plant Signaling and Behavior</i> , 2006, 1, 70-75.	2.4	16
22	Changes in Ion Fluxes During Phototropic Bending of Etiolated Oat Coleoptiles. <i>Annals of Botany</i> , 2004, 94, 187-194.	2.9	10
23	Specificity of Ion Uptake and Homeostasis Maintenance During Acid and Aluminium Stresses. <i>Signaling and Communication in Plants</i> , 2015, , 229-251.	0.7	10
24	Nitrogen Removal from Eutrophicated Water by Aquatic Plants. , 2010, , 355-372.		10
25	Ion Transport in Aquatic Plants. , 2010, , 221-238.		7
26	Ion flux interaction with cytoplasmic streaming in branchlets of <i>Chara australis</i> . <i>Journal of Experimental Botany</i> , 2004, 55, 2505-2512.	4.8	6
27	Ca <sup>2+</sup> Effects on K <sup>+</sup> Fluxes in <i>Arabidopsis</i> Seedlings Exposed to Al <sup>3+</sup> . <i>Soil Science and Plant Nutrition</i> , 2005, 51, 733-736.	1.9	5
28	Fluorescence Lifetime Imaging (FLIM) Measurements in Salinity Research. , 2012, 913, 149-161.		0